

**PATENT**

Attorney Docket No. HANOL-13037

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: **Hyun-Ah Kang, et al.** Group No.: 1652  
Serial No.: **10/587,956** Examiner: Raghu  
Filed: **October 5, 2007**  
Entitled: **NOVEL *HANSENULA POLYMORPHA* GENE CODING FOR ALPHA 1,6-MANNOSYLTRANSFERASE AND PROCESS FOR THE PRODUCTION OF RECOMBINANT GLYCOPROTEINS WITH *HANSENULA POLYMORPHA* MUTANT STRAIN DEFICIENT IN SAME GENE**

**DECLARATION UNDER 37 CFR § 1.132**

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Examiner Raghu:

I, Hyun-Ah Kang, hereby declare and state, under penalty of perjury, that:

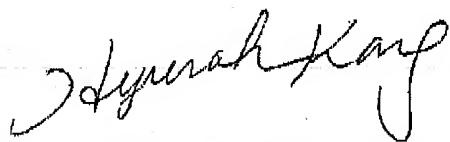
1. I am one of the inventors of the above-named patent application (hereafter; present application).
2. The attached supplemental figures describe experiments conducted according to the methods of the present application.
3. Supplemental Figure 1 describes a sequence alignment between SEQ ID NO:2 of the present application and the CRS4732 strain of *Hansenula polymorpha*. This figure demonstrates that *Hansenula polymorpha*  $\alpha$ -1,6-mannosyltransferase enzymes across different strains have high levels of sequence homology.
4. Supplemental Figure 2 describes additional working examples related to *Hansenula polymorpha* mutant strains comprising expression vectors for the sugar

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chain-modifying enzyme N-acetyl glucosaminyltransferase I. Supplemental Figure 2 demonstrates the expression of exogenous N-acetyl glucosaminyltransferase I in *Hansenula polymorpha*.

5. Supplemental Figure 3 describes an analysis of the sugar-chain structure of glycoproteins expressed in *Hansenula polymorpha* mutant strains that express N-acetyl glucosaminyltransferase I. This Figure demonstrates the utility of *Hansenula polymorpha* strains that N-acetyl glucosaminyltransferase I in the production of recombinant glycoproteins.

6. I declare that all statements made herein are of my own knowledge and are true, and further that those statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the patent application or any patent issuing there from.



01.06.2010

Date